

INDUSTRIAL WATER SOFTENERS



WATER SOFTENERS WITH STEEL TANKS

SWT Water Softeners with STEEL TANKS (FDA Lined & Primed), Aquamatic Diaphragm Valves, Time Initiated Backwash

Part Number	Flow Rate Superior GPM (LPM)	Flow Rate Standard GPM (LPM)	Flow Rate Peak GPM (LPM)	Flow Rate @ 5 PSI Drop GPM (LPM)	Capacity @ 6 lb/cu.ft. Grains	Capacity @ 15 lb/cu.ft. Grains	Resin Quantity Cu.Ft. (Liters)	Bed Surface Area Sq.Ft.	Backwash Rate GPM (LPM)	Tank Size Inches	Brine Tank Size Inches	Diaphragm Valve Size
WSC15P-2460	20 (76)	35 (132)	100 (379)	65 (246)	225,000	325,000	10 (283)	3.1	16 (61)	24 x 60	24 x 48	1.5" Composite
WSC20P-2460	20 (76)	35 (132)	100 (379)	125 (473)	225,000	325,000	10 (283)	3.1	16 (61)	24 x 60	24 x 48	2" Composite
WSC15C-3060	30 (114)	55 (208)	70 (265)	50 (189)	360,000	520,000	16 (453)	4.9	25 (95)	30 x 60	30 x 42	1.5" Cast Iron
WSC15P-3060	30 (114)	55 (208)	100 (379)	65 (246)	360,000	520,000	16 (453)	4.9	25 (95)	30 x 60	30 x 42	1.5" Composite
WSC20C-3060	30 (114)	55 (208)	135 (511)	80 (303)	360,000	520,000	16 (453)	4.9	25 (95)	30 x 60	30 x 42	2" Cast Iron
WSC20P-3060	30 (114)	55 (208)	150 (568)	125 (473)	360,000	520,000	16 (453)	4.9	25 (95)	30 x 60	30 x 42	2" Composite
WSC20C-3660	40 (152)	70 (265)	135 (511)	80 (303)	520,000	747,500	23 (651)	7.0	35 (132)	36 x 60	30 x 60	2" Cast Iron
WSC20P-3660	40 (152)	70 (265)	200 (757)	125 (473)	520,000	747,500	23 (651)	7.0	35 (132)	36 x 60	30 x 60	2" Composite
WSC25C-3660	40 (152)	70 (265)	200 (757)	115 (435)	520,000	747,500	23 (651)	7.0	35 (132)	36 x 60	30 x 60	2.5" Cast Iron
WSC30C-3660	40 (152)	70 (265)	200 (757)	200 (757)	520,000	747,500	23 (651)	7.0	35 (132)	36 x 60	30 x 60	3" Cast Iron
WSC30P-3660	40 (152)	70 (265)	200 (757)	280 (1060)	520,000	747,500	23 (651)	7.0	35 (132)	36 x 60	30 x 60	3" Composite
WSC20P-4260	60 (227)	115 (435)	180 (681)	130 (492)	720,000	1,040,000	32 (906)	9.6	48 (182)	42 x 60	39 x 48	2" Composite
WSC25C-4260	60 (227)	115 (435)	200 (757)	120 (454)	720,000	1,040,000	32 (906)	9.6	48 (182)	42 x 60	39 x 48	2.5" Cast Iron
WSC30C-4260	60 (227)	115 (435)	300 (1136)	190 (719)	720,000	1,040,000	32 (906)	9.6	48 (182)	42 x 60	39 x 48	3" Cast Iron
WSC30P-4260	60 (227)	115 (435)	300 (1136)	280 (1060)	720,000	1,040,000	32 (906)	9.6	48 (182)	42 x 60	39 x 48	3" Composite
WSC20P-4860	80 (303)	140 (530)	180 (681)	130 (492)	990,000	1,430,000	44 (1246)	12.6	63 (238)	48 x 60	50 x 60	2" Composite
WSC25C-4860	80 (303)	140 (530)	200 (757)	120 (454)	990,000	1,430,000	44 (1246)	12.6	63 (238)	48 x 60	50 x 60	2.5" Cast Iron
WSC30C-4860	80 (303)	140 (530)	330 (1249)	210 (795)	990,000	1,430,000	44 (1246)	12.6	63 (238)	48 x 60	50 x 60	3" Cast Iron
WSC30P-4860	80 (303)	140 (530)	400 (1514)	300 (1136)	990,000	1,430,000	44 (1246)	12.6	63 (238)	48 x 60	50 x 60	3" Composite
WSC30C-5460	100 (379)	175 (662)	330 (1249)	200 (757)	1,237,500	1,787,500	55 (1557)	15.9	80 (303)	54 x 60	60 x 60	3" Cast Iron
WSC30P-5460	100 (379)	175 (662)	440 (1666)	310 (1173)	1,237,500	1,787,500	55 (1557)	15.9	80 (303)	54 x 60	60 x 60	3" Composite
WSC40C-5460	100 (379)	175 (662)	500 (1893)	420 (1590)	1,237,500	1,787,500	55 (1557)	15.9	80 (303)	54 x 60	60 x 60	4" Cast Iron
WSC30C-6060	150 (568)	210 (795)	330 (1249)	210 (795)	1,485,000	2,145,000	66 (1869)	19.6	98 (371)	60 x 60	60 x 60	3" Cast Iron
WSC30P-6060	150 (568)	210 (795)	440 (1666)	310 (1173)	1,485,000	2,145,000	66 (1869)	19.6	98 (371)	60 x 60	60 x 60	3" Composite
WSC40C-6060	150 (568)	210 (795)	600 (2271)	310 (1173)	1,485,000	2,145,000	66 (1869)	19.6	98 (371)	60 x 60	60 x 60	4" Cast Iron



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Part Number	Flow Rate Superior GPM (LPM)	Flow Rate Standard GPM (LPM)	Flow Rate Peak GPM (LPM)	Flow Rate @ 5 PSI Drop GPM (LPM)	Capacity @ 6 lb/cu.ft. Grains	Capacity @ 15 lb/cu.ft. Grains	Resin Quantity Cu.Ft. (Liters)	Bed Surface Area Sq. Ft.	Backwash Rate GPM (LPM)	Tank Size Inches	Brine Tank Size Inches	Diaphragm Valve Size
WSC30C-6660	180 (681)	265 (1003)	330 (1249)	210 (795)	1,912,000	2,762,500	85 (2407)	23.8	119 (450)	66 x 60	60 x 60	3" Cast Iron
WSC30P-6660	180 (681)	265 (1003)	440 (1666)	310 (1173)	1,912,000	2,762,500	85 (2407)	23.8	119 (450)	66 x 60	60 x 60	3" Composite
WSC40C-6660	180 (681)	265 (1003)	600 (2271)	440 (1666)	1,912,000	2,762,500	85 (2407)	23.8	119 (450)	66 x 60	60 x 60	4" Cast Iron
WSC30C-7260	220 (833)	315 (1192)	330 (1249)	210 (795)	2,250,000	3,250,000	100 (2832)	28.2	141 (534)	72 x 60	72 x 60	3" Cast Iron
WSC30P-7260	220 (833)	315 (1192)	440 (1666)	310 (1173)	2,250,000	3,250,000	100 (2832)	28.2	141 (534)	72 x 60	72 x 60	3" Composite
WSC40C-7260	220 (833)	315 (1192)	600 (2271)	440 (1666)	2,250,000	3,250,000	100 (2832)	28.2	141 (534)	72 x 60	72 x 60	4" Cast Iron
WSC60C-7260	220 (833)	315 (1192)	900 (3407)	900 (3407)	2,250,000	3,250,000	100 (2832)	28.2	141 (534)	72 x 60	72 x 60	6" Cast Iron

System is unassembled (for shipping purposes) and includes all necessary valves, tank, grades of media, underbedding, internal distributors/strainers, drain line flow controls, and the clock/timer/stager assembly mounted into a control box. External piping is not included. Customer may want to consider system additions of pressure gauges, sample cocks, vacuum breakers, flex connectors, bypass valves, shut-offs, etc.

Cast Iron Valve available connections: (FPT: 1.5 inch, 2 inch, 2.5 inch, 3 inch); (Flanged: 3 inch, 4 inch, 6 inch)

Plastic Valve available connections: (MPT: 1.5 inch); (Male Spigot Weld: 1.5 inch, 2 inch); (Female Socket Weld: 2 inch); (Flanged: 2 inch, 3 inch)

Recommended Service Flow Rates/Ranges are based on the cu.ft. of the tank/filter bed. Slower flow rate per cu.ft. = Better Filtration

- 2 gpm/cu.ft. = Superior Softening (less than 0.15 grain (3 ppm) of hardness leakage) with less than 2 psi drop
- 3.5 to 5 gpm/sq.ft. = Commercial Grade Softening (up to 1 grain (17 ppm) of hardness leakage) with less than 5 psi drop
- 5 to 10 gpm/cu.ft. = Utility Softening
- Peak flow rates are based on 10 gpm/cu.ft. or greater than 12 psi loss, whichever occurs first.

System Flow Rates as listed are based on pressure drop curves of less than 2 psi drop through the service valves.

Backwash Rates for proper bed cleaning are best achieved at 3.8 gpm/cu.ft. at 60°F. However, adjustments in the backwash rate may be necessary for different water temperatures. Also allow backwash variations for valve sizes, pipe sizes, pump sizes, water availability, and unique applications.

Backwash Rates allow 50% bed expansion at 60°F.

Valve Sizes and Tank Size Pairings for special flow rates and backwash rates may be substituted at customer request or are application dependent.

Operating Pressure: 100 psi (7 bar)

Maximum Temperature: 140°F (60°C)

Capacity based on 23 grains (400 ppm) of hardness as CaCO₃ at 2 to 4 gpm/cu.ft. (2 to 1 CaCO₃ to Mg ratio).

Hardness Leakage of less than 3 ppm (0.2 grains) at 6 lb. NaCl, and less than 1 ppm (0.1 grains) at 12 lb. NaCl. Total bed hardness capacity includes a 5% safety factor.

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